

08 MAR 2006

Agent's reference: 05-598-B

IN THE UNITED STATES RECEIVING OFFICE (RO/US)

In re Application of:)	
)	
Dong Moon WOO)	Group Art Unit: TBA
)	
Serial No.: 10/560,506)	Examiner: TBA
)	
Filed: December 13, 2005)	
)	
For: Method of Transmitting A Signal in a)	
Distributed BTS System)	

TRANSMITTAL LETTER

Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sirs:

In regard to the above-identified application we are transmitting herewith the attached:

- 1) International Preliminary Report on Patentability;
- 2) **CERTIFICATE OF MAILING BY "EXPRESS MAIL" UNDER 37 CFR § 1.10:** The undersigned hereby certifies that this Transmittal Letter and the paper, as described hereinabove, are being deposited with the United States Postal Service with sufficient postage as "Express Mail Post Office to Addressee" in an envelope addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia, 22313-1450, on this 8th day of March, 2006, Express Mail No. **EV839411556US**.

Respectfully submitted,

By



Robert J. Irvine III
Registration No. 41,865
Attorney for the Applicant(s)

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
PRELIMINARY REPORT ON PATENTABILITY
(CHAPTER I OF THE PATENT COOPERATION
TREATY)

(PCT Rule 44bis.1(c))

To:

YOON, Jee Hong
Hannuri Bldg.
219, Naeja-dong
Chongno-gu
Seoul 110-053
RÉPUBLIQUE DE CORÉE

Date of mailing (day/month/year)

09 February 2006 (09.02.2006)

Applicant's or agent's file reference

FE241491

IMPORTANT NOTICE

International application No.

PCT/KR2004/001859

International filing date (day/month/year)

23 July 2004 (23.07.2004)

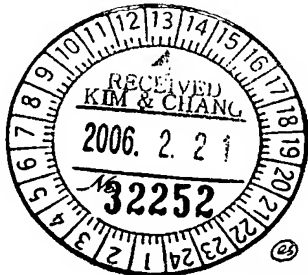
Priority date (day/month/year)

24 July 2003 (24.07.2003)

Applicant

UTStarcom Korea Limited et al

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)



2472
27HR

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Authorized officer.

Philippe Becamel

Facsimile No.+41 22 740 14 35

Facsimile No.+41 22 338 70 90

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference FE241491	FOR FURTHER ACTION	See item 4 below
International application No. PCT/KR2004/001859	International filing date (<i>day/month/year</i>) 23 July 2004 (23.07.2004)	Priority date (<i>day/month/year</i>) 24 July 2003 (24.07.2003)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant UTStarcom Korea Limited		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

- | | | |
|-------------------------------------|--------------|---|
| <input checked="" type="checkbox"/> | Box No. I | Basis of the report |
| <input type="checkbox"/> | Box No. II | Priority |
| <input type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> | Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> | Box No. VI | Certain documents cited |
| <input type="checkbox"/> | Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> | Box No. VIII | Certain observations on the international application |

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 740 14 35	Date of issuance of this report 30 January 2006 (30.01.2006) Authorized officer <p style="text-align: center; font-weight: bold;">Philippe Becamel</p> Telephone No. +41 22 338 70 90
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COPY FOR IB

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

RECEIVED

26 OCT 2004

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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

YOON, Jee Hong

Hannuri Bldg. 219 Naeja-dong, Chongno-gu, Seoul 110-053,
Republic of Korea

Date of mailing

(day/month/year) 20 OCTOBER 2004 (20.10.2004)

Applicant's or agent's file reference

FE241491

FOR FURTHER ACTION

Sec paragraph 2 below

International application No.

PCT/KR2004/001859

International filing date (day/month/year)

23 JULY 2004 (23.07.2004)

Priority date(day/month/year)

24 JULY 2003 (24.07.2003)

International Patent Classification (IPC) or both national classification and IPC

IPC7 H04B 7/155

Applicant

UTStarcom Korea Limited et al

1. This opinion contains indications relating to the following items:



Box No. I Basis of the opinion



Box No. II Priority



Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability



Box No. IV Lack of unity of invention



Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement



Box No. VI Certain documents cited



Box No. VII Certain defects in the international application



Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR



Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

SHIN, Jun Ho

Telephone No. 82-42-481-8129



WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/001859

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing
☐ table(s) related to the sequence listing

b. format of material

- ☐ in written format
☐ in computer readable form

c. time of filing/furnishing

- ☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2004/001859

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	<u>1</u>	YES
	Claims	<u>NONE</u>	NO
Inventive step (IS)	Claims	<u>NONE</u>	YES
	Claims	<u>1</u>	NO
Industrial applicability (IA)	Claims	<u>1</u>	YES
	Claims	<u>NONE</u>	NO

2. Citations and explanations :

Reference is made to the following document :

D : JP 07-30493 A (1995.01.31)

As the closest prior art of the invention of Claim 1, D discloses a mobile communication method comprising the steps of:

a repeater station receiving microwave radio signals from a main base station; converting the received radio signals respectively into optical signals by laser diodes; transmitting the optical signals to retransmitting base stations;

the retransmitting base stations' converting the optical signals into electric signals; and transmitting the electric signals to mobile stations (D Abstract, Fig. 1).

A skilled person in the art can anticipate Claim 1 from D because D teaches a microwave transmission method and an optical transmission method together between the main base station and retransmitting base stations. Therefore, Claim 1 lacks an inventive step.